114 forming the tobol" and, by extension, "servant of the tobol."
533 At the present time these three fractions number about 150
631 people.
[162] We call attention to them here only as a reminder.

Book V

Material Life

Chapter 1

Living Conditions Among the Ahaggar Tuareg

133 The Ahaggar, as we have already said, is a mountain refuge. We do not know why the Tuareg have continued to live there when they could have found much better countries to the south where they could have had a much easier life. Perhaps we should attribute this to attachment to the country or, quite simply, to an ancient state of things which forced them to take refuge against their will in the middle of the rocks.

13 A superficial examination shows that the Ahaggar is a very poor
[511] country with negligible resources, which imposes a living standard
[312] lower than the average. The pasture reserves are calculated, as are the water reserves. The subsoil possesses nothing, or almost nothing, which is marketable, except a little salt. Consequently, the possibilities for life there are quite limited. For the inhabitants to live, then, they must have recourse to outside resources.

7:Nicolaisen E-5 (1951-1962) 1963 MS25 Tuareg MS25

tamat, *Acacia seyal*) and tamarisks (*tabarekkat*, *Tamarix aphylla* & *azawa*, *Tamarix gallica* and related species). Other important perennial species are the grasses *afezu* (*Panicum turgidum*) and *tullult* (*Aristida pungens*) the latter grass being found especially around the northern massifs of Anhet and Téfedest, and in Tasilé-n-Ajjer.

2) *Tarayin*, the middle mountain zone which has the following characteristics:— Acacias are lacking or are very rare and badly developed. The big tamarisk (*tabarekkat*) is lacking while the smaller species (*azawa*, *T. gallica*) is common in certain valleys. Two trees are found which do not grow in the lower zone, namely *tahunek* (*Rhus oxyacantha*) and *alew* (*Olea Lapperrini*). The *tullult* grass (*Aristida pungens*) is missing and the *afezu* grass (*Panicum turgidum*) is scarce.

3) *Atakor*, the highest part of Ahaggar with the following characteristics:— There are no trees with the exception of *alew* (*Olea Lapperrini*), and there are on the whole very few perennial species while annual species are abundant in case of rainfall.

It should be noted that only the important characteristics of the three Tuareg zones are here mentioned, and I add that a few perennial plants are found within all three zones. Thus the perennial species *aramas* (*Atriplex Halimus*) occurs along the valleys in all three zones, but it is of very low stature high up in the mountains, while it forms very high and bush-like tufts in the lower parts of the country.

In Ayr there is also a change of vegetation according to altitude but a general description of this is rather complicated. The lower parts of the Ayr Massif as well as the southern plains are dominated by acacias (*afagag*, *Acacia Raddiana* & *tamat*, *A. flava*) like the lower parts of Ahaggar, and the *afezu* grass (*Panicum turgidum*) is very common almost everywhere throughout the country, while the *tullult* grass is found only in sandy regions at the eastern slopes of the Massif. Species of tamarisks are extremely rare, and this is true of certain other species which are common in Ahaggar. The trees *tahunek* (*Rhus oxyacantha*) and *alew* (*Olea Laperrini*) grow only in isolated mountainous parts of Ayr. The extensive plains west of the Ayr Massif around Ingal are dominated by acacias and the *afezu* grass, but these perennial plants become less and less common towards the north, so that the regions around I-n-abanrerit have very little persistent vegetation but a rich vegetation of annual plants. For further information on the botany of Ayr I refer to the study of Miré & Gillet who describe all known species and indicate their division into particular vegetational zones (Miré & Gillet 1956). I conclude this outline of Tuareg botany with the statement that Ahaggar and Ayr have many important species in common. But there are northern species which do not thrive in Ayr while some southern species are unknown in Ahaggar, e.g., the dum palm *tagayt* (*Hyphaena thebaica*) which plays a great role with the Ayr Tuareg.

Climatically as well as botanically the Ahaggar Mountains are situated on the frontier of two distinct zones, namely the Mediterranean and the Tropical zones, while Ayr is predominantly tropical. This seems true also zoologically, as the Ayr fauna contains a great many species of birds and mammals characteristic of tropical Africa. The bird life of Ayr seems very akin to that of the Sudanese savannah, and, for instance, guinea fowl is extremely common even in valleys of the northern-most parts of the Massif. As example of tropical mammal life in Ayr we may here mention that the wart-hog lives in Central Ayr, and that oryx antelope and giraffe are found in the plains immediately south and west of the Massif. I do not wish here to compare in detail the natural history of Ayr and Ahaggar, but

7:Nicolaisen E-5 (1951-1962) 1963 MS25 Tuareg MS25

13 would emphasize the fact that climatically, botanically, and zoologically a certain dividing line runs between these two Tuareg countries. This should not be overlooked in an anthropological description of these parts of Northern Africa.

144 174 At present both fair-skinned europids and black-skinned negroid people live all over the Sahara, and are frequently mixed. There seems to be little doubt that in the north most Negroes have come in with the slave trade. We cannot entirely exclude the possibility that part of the northern Negroes in the Fezzan constitutes an ancient population of the Sahara (cf. Capot-Rey 1953a, p. 167 ff.), but in Ahaggar the ancestors of the present Negroes seem to have arrived later than the fair-skinned Berbers. Until a hundred years ago all Negroes of Ahaggar were apparently Tuareg slaves bought or captured in the Sudan, but the negroid *Ḥarratin* then immigrated from Tidikelt to make gardens for the Tuareg. Another immigration of predominantly black-skinned and negroid agriculturists came from Tasilé-n-Ajjer and in particular from the oasis of Ġanet. It is not quite certain whether they came before or after the *Ḥarratin*. – Negro slaves have also been introduced from the Sudan to Ayr by pastoral Tuareg, but there is no doubt that Ayr originally was a pure Sudanese country anthropologically, as it is Sudanese in regard to climate, botany, and zoology. In other words, the oldest known inhabitants of Ayr were Negroes while the fair-skinned Berbers arrived at a later date. It is stated both by Nicolas and Urvoy that, before the Tuareg, Ayr was inhabited by negroid Hausa or Proto-Hausa (Nicolas 1950a, p. 45; Urvoy 1936, p. 138 ff.), and Barth claims the word *Ayr* to be relatively late and of Tuareg origin, the word *Azben* also used as a name of the Massif, to be of Hausa origin and older (Barth 1857, I, p. 369). My investigations seem to confirm these statements. All Tuareg questioned about the history of Ayr have admitted that the negroid agriculturists have lived in the country before the Tuareg, and in the Berber dialect spoken by these people there are a great many Hausa words. It is, I think, of particular interest that the negroid village population of the *Kel Ewey* group is said to have a kinship system quite distinct from that of all true Tuareg and related to the system is use among the black-skinned citizens of Agadez. These people draw no distinction between parallel cousins and cross-cousins, while distinct terms for these relatives are characteristic of true Tuareg systems (Figs. 293–294).

173 192 601 184